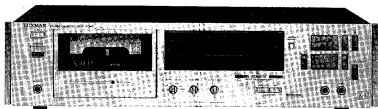


# SERVICE MANUAL



STEREO CASSETTE DECK

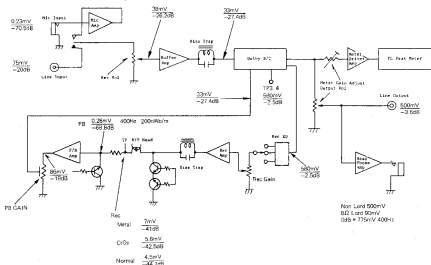
# K-240



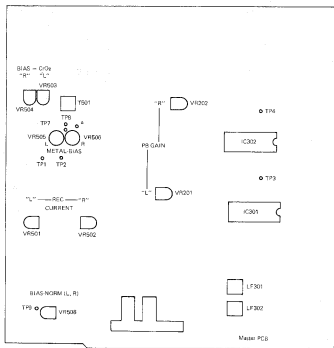
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## Level Diagram

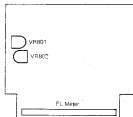


## Adjustment Location

















Front

- VR201: 22KB P/B Gain Adj. (L-ch)
- VR202: 22KB P/B Gain Adj. (R-ch)
- VR501: 47KB REC Level Adj. (L-ch)
- VR502: 47KB REC Level Adj. (R-ch)
- VR503: 100KB Bias Adj. CrO<sub>2</sub> (L-ch)
- VR504: 100KB Bias Adj. CrO<sub>2</sub> (R-ch)
- VR505: 100KB Bias Adj. Metal (L-ch)
- VR506: 100KB Bias Adj. Metal (R-ch)
- VR508: 2.2KB Bias Adj. Normal (L/R-ch)
- VR801: 4.7KB Meter Adj. (L-ch)
- VR802: 4.7KB Meter Adj. (R-ch)
- T501: Bias OSC Frequency Adj.



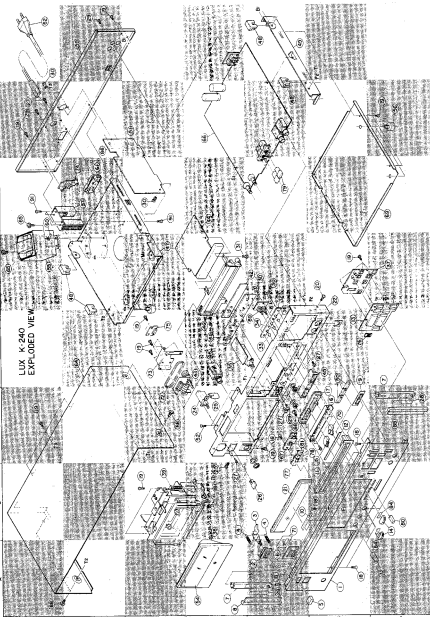
## Adjustment Procedures

Step	Description	Mode	Adjusting Point	Test Point	Connection	Remarks
1	Tape Transportation Check	Play				Make sure that does not touch the tape guide of erase and R/P heads, by using "Sleeve Half". Confirm that R/P head is placed without any tilt against the "90-300" gage.
2	Torque Check	Play, FF & Rew				Take Up Torque : 35-40 g-cm Eject Torque : 10-15 g-cm FF & Rew Torque : 10-130g-cm
3	Tape Speed and Wow Flutter Check	Playback		Line Out		Test Tape : MT-111 (30Hz) Speed : 3000Hz $\pm$ 1.5% Wow Flutter : No more than 0.05% (JIS 9.3.M.5.) For the wow speed adjustment, adjust to read 3000 = 3010Hz at the beginning of tape at 6 cm.
4	Head Azimuth Adjustment	Playback	See Fig. 11	Line Out		Test Tape : MT-150 (4000Hz, 2000Hz/1m) TP3.4 500mV
5	Playback Boly Level Adjustment	Playback Tape Select:Normal Boly NR :OFF	VR201 Lch VR202 Rch	TP3 Lch TP4 Rch		Test Tape : MT-150 (4000Hz, 2000Hz/1m) Line Out : 550mV
6	FL Meter Adjustment	Playback	VR201 Lch VR202 Rch	Meter Display		Test Tape : MT-150 Meter Display : 0 dB
	Playback Frequency Response Check	Playback Tape Select:Normal Boly NR :OFF	Step 1-5	Line Out		Test Tape : MT-150 MT-215C
		Playback Tape Select:Normal Boly NR :OFF				Test Tape : MT-111 or MT-215C
8	Blank OSC Frequency Response Check	Record Tape Select:Normal Boly NR :OFF	TS01	TP3 - TP8 (CPH)		Signal : 100kHz 15V TP Output : 200mV 220mV

Step	Description	Mode	Adjusting Point	Test Point	Connection	Remarks
9	a Bias Current Adjustment	Record Tape Select: Metal Dolby NR : off	VR505 Lch VR506 Rch	TP1-GND TP2-GND		Input : Non TP Output: 60mV
	b	Record Tape Select: Cr02 Dolby NR : off	VR503 Lch VR504 Rch			Input : Non TP Output: 40mV
	c	Record Tape Select: Normal Dolby NR : off	VR508 L/Rch			Input : Non TP Output: 80mV
10	a Input Level Adjustment	Record Tape Select: Normal Dolby NR : off	Rec Level VR	Line Out		Input : 70mV 400Hz Line Out: 500mV
	b	Record/Play Tape Select: Metal Dolby NR : off	Check	Line Out		Input : 70mV 400Hz Line Output: 500mV
	c	Record/Play Tape Select: Cr02 Dolby NR : off	VR501 Lch VR502 Rch			
11	a	Record/Play Tape Select: Normal Dolby NR : off	Check	Line Out		Record Tape: AC-711 Input : 20Hz - 10KHz 4.2mV
	b	Record/Play Tape Select: Cr02 Dolby NR : off	Step 8-11	Line Out		Record Tape: AC-512 Input : 20Hz - 17KHz 4.2mV
	c	Record/Play Tape Select: Normal Dolby NR : off				Record Tape: AC-228 Input : 20Hz - 10KHz 4.2mV
12	a	Record/Play Tape Select: Metal Dolby NR : off	Check	Line Out		Record Tape: AC-711, AC-512 Input : 20Hz - 12.5KHz 4.2mV
	b	Record/Play Tape Select: Cr02 Dolby NR : off				
	c	Record/Play Tape Select: Normal Dolby NR : off				
13	Record/Playback Frequency Response Check (Dolby)	Record/Play Tape Select: M.C.N. Dolby NR : B.C				

# Explodep View

LUX K-240  
EXPLODED VIEW

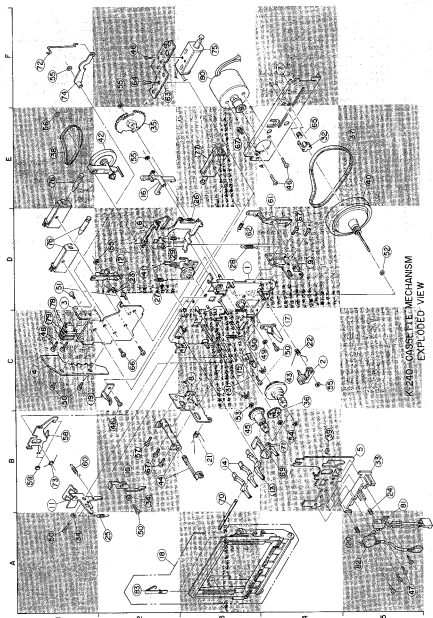


# Explodep View Parts List

Index	Symbol No.	Stock No.	Description
A6	1	64D61139F01	Panel, Front
A5	2	07A45558F04	Frame, Eject
B5	3	45A50461F01	Lever, Eject
B4,B5	4	41A45559F01	Spring, Eject
A6	5	36A44340F05	Knob, Eject
A5	6	61A56641F01	Crystal, Indicator
A4,D7	7	07A57175F01	Bracket, Side Panel
A4	8	07B56624F01	Frame, Side Panel
D6	9	07A61138F01	Frame, Push Knob
B5	10	75B44632G04	Pad, Cushion
B6	11	13C61140F01	Escutcheon, Volume
C6	12	43A57191F01	Spacer, Escutcheon
D6	13	01V61900F44	Ass'y, Knob Logic
D6	14	36B57177F01	Knob Control
C6	15	43B57179F01	Spacer, Knob Control B
C6	16	07B57169F01	Bracket, Slide Volume
C6	17	18T52629F01	Volume, Slide 20K
A5,A6	18	03S40012G26	Screw, M3x6
C1,B3	19	03S40012G03	Screw, M3x6
B4	20	03S40012G08	Screw, M4x6
B5	21	61B57222F01	Crystal, Meter
E6	22	27D61136F01	Chassis, Front
E5	23	01V61900F40	Ass'y, Indicator PCB
C4	24	40T45561F02	Switch, Power
C4	25	43T53138F01	Bush, Cap TP150-301
B5	26	36A56639F02	Knob, Push 1171
B4,C5	27	03S40011G17	Screw, M3x6
A5,C7	28	14S53018F52	Insulator 50x12
C5,G1	29	03S40012G41	Screw M3x8
E5,F3	30	05B41635J02	Rivet, Push
E4	31	05B41635J03	Rivet, Push
A7	32	36B51053F02	Knob, Rotary
D5	33	43A41728U15	Bush, Lamp
D5	34	43A41728U14	Bush, Lamp
D4	35	01V61900F35	Ass'y, Rotary SW PCB
D5	36	43A41728U11	Bush, Lamp
E7	37	01V61900F45	Ass'y, Key Board SW
B4	38	64B57188F01	Plate, Door
B3	39	01U61000F16	CAS Deck FL87E030
D4	40	07C57182F01	Frame, Meter
D4	41	61A57164F03	Filter, Meter (A)
E5	42	61A57184F01	Filter, Meter (B)
D4	43	72T57221F01	Tape Counter

Index	Symbol No.	Stock No.	Description
F4	44	01V61900F37	Ass'y, FL Meter PCB
D6	45	43A61328F01	Bush, Lamp
D4	46	01V61900F34	Ass'y, Head Phone PCB
E3	47	27D58921F02	Chassis, Bottom
E2,G5	48	07A61143F01	Spacer, Side
H5	49	27C58922F01	Chassis, Side
D6	50	61A61141F01	Lens, Indicator
G3	51	01V61900F32	Ass'y, Control PCB
C4	52	03S44205G16	Screw T-Tite M3x6
A4	54	01C57187F01	Crystal Door
E1	55	25T60094F01	Trans Power
E3,G7	56	75A60070F01	Ass'y, Pad Rubber
F2	57	07T56351F02	Heatsink
H2	59	15C58925F03	Cover, Rear
F1	60	29A41814F01	Lug
F2	61	09T60095F01	Socket AC
H2	62	30T60085F01	Cond Set(Semko)SKEX, BKAK
		30T600804F01	Cond Set (UL/CSA), UQ
		30T600973F01	Cond Set (BS) AG
D2	64	15D61137F01	Cover, Top
EL,F1	65	03S40036U16	Screw, M4x6
G4	66	01V61900F31	Ass'y, Master PCB
C5	67	01V61900F50	Ass'y, Music Scan
C5	68	03S40018G02	Screw TPG M3x8
F7	69	15C58942F01	Cover, Bottom
C6	70	43B57178F01	Spacer, Knob Control (A)
B5	71	43A56628F01	Spacer, Power
C3	72	42A57223F01	Belt, Counter
D3	73	07B57165F01	Bracket, Counter
F2	74	09T57205F01	Plate, Photo
D3	75	01V61900F38	Ass'y, Reed SW
D6	76	07A61144F01	Frame, Push SW
B5	77	36B61142F02	Knob, Music Scan
C6	78	03C40014G12	Screw, M2.6x4
F5	79	36A57176F01	Knob, Push (A)
B7	80	36A57180F01	Knob Push (B)
C5	81	36B61142F01	Knob, Music Scan
A7	84	75A57370F01	Pad, Cushion
C7	85	07B56624F02	Frame, Panel Side
G2	86	09T50261F01	Jack, Cont
A1,C3	88	03S40036U07	Screw, M4x12
D5	89	01V61900F39	Ass'y, Memory SW
F1,F3	91	03S40011G17	Screw, M3x6

# Exploded View (Mechanism)



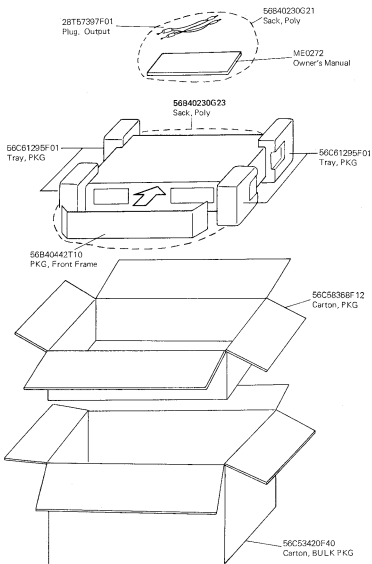
K-240 CASSETTE MECHANISM  
EXPLODED VIEW



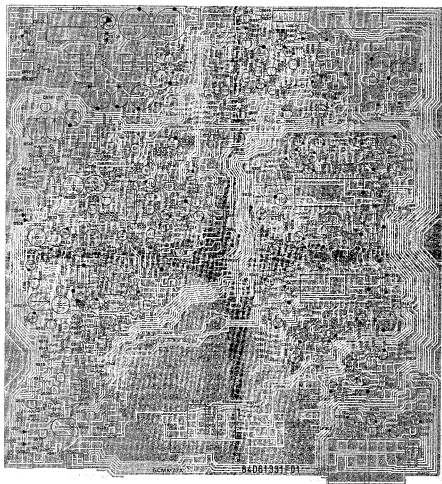
# Explode View (Mechanism) Parts List

Index	Symbol No.	Stock No.	Description	Index	Symbol No.	Stock No.	Description
D3	1	FO11-169	Ass'y, Chassis	E2	42	FP470-11	Ass'y, Clutch
C4	2	FO14-053	Ass'y, Pinch Roller	C4	43	F123-025	Ass'y, Take Up Reel
D1	3	F214-019	Bracket, Solenoid Reserve Stock	B2	44	FP472-11	Ass'y, Clutch
C1	4	FP13D-11	Connector, Panel	B3	45	F105-019	Ass'y, Reel
B5	5	FO12-068	Plate, Head Reserve Stock	B2,E4	46	FG114-15	Screw, W/Washer
D2	6	FC11P-13	Base, Assist	A5	47	FG137-15	Screw, F-Lock
F4	7	FR347-12	Bracket, Motor	C1	48	FG143-30	Screw Pan
C3	8	FR349-17	Bracket, Dumpster	C4	49	FJ141-12	Washer, Oil Shield
D4	9	FR350-15	Bracket, Door	A1,A2	50	KG194-12	Screw, Pan
B2	10	FR352-11	Lever, Safety	D1	51	KG194-46	Screw, Tap Tite
B1	11	FC32U-11	Arm, Eject Lock	D5	52	FJ111-14	Washer, Poly
D2	12	FR355-15	Arm, FF Solenoid	B3	53	FJ111-19	Washer, Poly
B4	13	FD26K-12	Arm, Cassette	B4	54	FJ123-14	Washer, Poly
B3	14	FD26L-11	Arm, Record	C4,D2	55	FJ123-21	Washer, Lock
C3	15	FR358-14	Reference, Guide	E1	56	FJ123-19	Washer, Lock
E2	16	FO11L-12	Arm, Play Solenoid	B2	57	UG110-11	Screw, Tap Tite
C4	17	FR360-12	Guide, Cassette	B1	58	FC15G-14	Lever, Brake
A2	18	FO27-062	Frame, Door Ass'y	B1	59	FF11C-14	Rubber, Brakes
C1	19	FK551-13	Spring, Cassette	B1	60	FK18M-11	Spring, Arm Eject
A5	20	FK572-12	Spring, Azimuth	E4	61	FD11K-14	CR, Lock Panel
B3	21	FK568-11	Spring, Door	D3	62	FK11A-12	CR, Spring Lock Panel
C4	22	FK569-14	Spring, Pinch Roller	F2	68	FC11N-12	Bracket, Solenoid
D2	23	FK11N-11	Spring, Bkt Solenoid	F2	64	FG182-11	Screw, Tap Tilt
B5	24	FK572-11	Spring, Azimuth	E4	65	FK11F-16	Spring, Srast
A2	25	FK573-11	Spring, Arm Lock	C2	66	FG143-17	Screw, pan
E3	26	FK574-13	Spring, Base Assist	B2,D4	67	KG189-11	Screw, pan
D2	27	FK575-11	Spring, Play Idler	B4	69	FD26M-12	Arm (M)
D3	28	FK19K-11	Spring, Play Solenoid Arm	B3	70	FL25F-11	Shaft (A)
D4	29	FK577-13	Spring, Head Base	B4	71	KG111-19	Ring (E)
C3	30	FK578-13	Spring, Head Base Hold	F1	72	FK11Y-14	Brake, Rod
C3	31	FK579-14	Spring, Back Tension	B1	73	FK12A-12	Spring, Brake
E4	32	FM281-12	Spacer, Flywheel	F1	74	FD12W-12	Arm, Brake
B5	33	FM283-14	Spacer, Head	F3	75	PKA16103	Solenoid
A1,B2	34	FM296-11	Spacer	D1,E1	76	PKA16106	Solenoid
E2	35	FN153-11	Gear, Play	E3	77	PKA16101	Solenoid
C4	36	FM154-14	Gear, Idler	D1	78	FE173-11	Slide SW
E5	37	FP462-11	Belt, Main	C1	79	FE173-11	Slide SW
E1	38	FP463-11	Belt, Sub	F3	80	F064-093	Ass'y, Motor
B4	39	FP464-11	Pad, Cushion	B5	81	F029-156	Head R/P
E5	40	FP467-12	Ass'y Flywheel	A5	82	F030-052	Head, Erase
D2	41	FP469-12	Ass'y, Idler	A2	83	FC32M-12	Holder, SP

## Packing Material Parts List



# Master PCB Parts List



K-240

# Master Board Parts List

Symbol No.	Stock No.	Description
(Jack)		
J201	09T57396F01	Plate, Phone4P(JAL)
J203	09T60076F01	MIC
J204	09T60076F01	MIC
(Coil OSC)		
T501	24T60049F01	Coil OSC
(Coil)		
L301	24T47741F01	36mH
L302	24T47741F01	36mH
L501	24S41448F99	4700UH
L502	24S41448F99	4700UH
L503	24T44499P01	27mH
L504	24T44499P01	27mH
(Switch)		
S301	40T61330F01	Push SUL 2Key
S302	40T61330F01	Push SUL 2Key
(Variable, Resistor)		
VR201	18T52946F15	22KB
VR202	18T52946F15	22KB
VR401	18T60151F01	5K-A
VR501	18T52946F17	47KB
VR502	18T52946F17	47KB
VR503	18T52946F19	100KB
VR504	18T52946F19	100KB
VR505	18B44064J07	100K-1/2
VR506	18B44064J07	100K-1/2
VR507	18T60150F01	1K-B
VR508	18T52946F09	2.2KB
(Diode, Bridge)		
BD101	48T50629F01	WL-02
(Filter)		
LF301	91T61321F01	MPX(38K)
LF302	91T61321F01	MPX(38K)
(Fuse)		
F101	65T42077U16	Semko T-1A
F102	65T42077U16	Semko T-1A
(Holder, Fuse)		
F101	09T45548F01	Holder, Fuse
F102	09T45548F01	Holder, Fuse
(IC)		
IC301	51T52160F01	HA12038-01
IC302	51T52160F01	HA12033-01
IC501	51S43471U02	UPC4558C
(Transistor)		
Q201	48S43394P01	2SC1890 E, F
Q202	48S43394P01	2SC1890 E, F
Q203	48S43394P01	2SC1890 E, F
Q204	48S43394P01	2SC1890 E, F
Q205	48S43525F05	1SC1315-Y, GR
Q206	48S43525F05	2SC1815-Y, GR
Q207	48S47706F04	2SC1843 E
Q208	48S47706F04	2SC1843 E
Q209	48S47706F04	2SC1843 E
Q210	48S47706F04	2SC1343 E
Q213	48S43525F05	2SC1815-Y, GR
Q214	48S43525F05	2SC1815-Y, GR
Q251	48S47706F04	2SC1843 E
Q252	48S47706F04	2SC1843 E
Q301	48S43525F05	2SC1815-Y, GR

Symbol No.	Stock No.	Description
Q302	48S43525F05	2SC1815-Y, GR
Q303	48S43525F05	2SC1815-Y, GR
Q405	48T57305F01	2SD1302-S, T
Q406	48T57305F01	2SD1302-S, T
Q407	48T43015U01	2SC2120-Y
Q408	48T43015U01	2SC2120-Y
Q501	48S43525F05	2SC1815-Y, GR
Q502	48S43525F05	2SC1815-Y, GR
Q503	48S43525F05	2SC1315-Y, GR
Q504	48S43525F05	2SC1815-Y, GR
Q505	48S43525F05	2SC1815-Y, GR
Q506	48S43525F05	2SC1815-Y, GR
Q509	48T57305F01	2SD1302-S, T
Q510	48T57305F01	2SD1302-S, T
Q511	48S43394P01	2SC1890 E, F
Q512	48S48894P01	2SC1890 E, F
Q513	48S40832F03	2SC1318NC-R
Q514	48S40832F03	2SC1318NC-R
Q515	48T43015U01	2SC2120-Y
Q516	48T61307F01	DTC114
Q517	48T61307F01	DTC114
Q616	48S43525F05	2SC1815-Y, GR
Q901	48T40081T03	2SA733(P)
Q902	48S43525F05	2SC1815-Y, GR
Q903	48T42941U01	2SA921S
Q904	48S43525F05	2SC1815-Y, GR
Q905	48S43525F05	2SC1815-Y, GR
Q906	48S43525F05	2SC1815-Y, GR
Q907	48T40081T03	2SA733(P)
Q908	48T61307F01	DTC114
Q909	48T40081T03	2SA733(P)
Q910	48S43525F05	2SC1815-Y, GR
Q911	48S43525F05	2SC1815-Y, GR
Q912	48T40081T03	2SA733(P)
Q913	48T40081T03	2SA733(P)
Q914	48T40081T03	2SA733(P)
Q915	48T40081T03	2SA733(P)
(Diode)		
D101	48T61129F01	GP10-4003-R5
D501	48T58583F01	SS176TPA7
D502	48T58583F01	SS176TPA7
D504	48T58583F01	SS176PAT7
D505	48T53583F01	SS176TA
D902	48T53583F01	SS176PAT7-A
D903	48T58583F01	SS176TPA7
D904	48T53429F01	1SS81
D905	48T58583F01	SS176TPA7
D906	48T58583F01	SS176TPA7
D907	48T58583F01	SS176TPA7
D908	48T58583F01	SS176TPA7
D909	48T58583F01	SS176TPA7
D910	48T58583F01	SS176TPA7
D911	48T58583F01	SS176TPA7
D912	48T58583F01	SS176TPA7
(Diode, Zener)		
ZD101	48T40150U80	HZ20-2
ZD102	48T40150U66	HZ12B-33
ZD105	48T40150U71	HZ15-2

Symbol No.	Stock No.	Description
ZD301	48T40150Z68	HZ12C-2
ZD302	48T40150U68	HZ12C-2
ZD303	48T40150U32	HZ6B-2
ZD501	48T40150U76	HZ18-1
(Capacitor)		
C101	23S40657F28	1uF 50V E1
C102	23S41198U67	1000uF 50V E1
C103	25S41198U57	470uF 25V E1
C104	23S41198U42	220uF 250V E1
C105	23S41198U72	2200uF 25V E1
C106	23C41198U55	470uF 16V E1
C107	23S40657F14	100uF 16V E1
C201	08T55260F45	470pF Ce
C202	08T55260F45	470pF Ce
C203	23T42478F09	4.7uF 25V E1
C204	23S43478F09	4.7uF 25V E1
C205	08T55260F45	470pF Ce
C206	08T55260F45	470pF Ce
C207	08T55260F29	47pF Ce
C208	08T55260F29	47pF Ce
C209	23S40657F14	100uF 16V E1
C210	23S40657F14	100uF 16V E1
C211	08S40656F07	3300pF My
C212	08S40656F07	3300pF My
C213	23S40657F10	10uF 16V E1
C214	23S40657F10	10uF 16V E1
C217	08T55260F49	1000pF Ce
C218	08T55260F49	1000pF Ce
C221	23S40657F16	4.7uF 25V E1
C222	23S40657F10	10uF 16V E1
C225	08S40656F14	0.012uF My
C226	08S40656F14	0.012uF My
C228	23S40657F21	100uF 25V E1
C251	08T55260F49	1000pF Ce
C252	08T55260F49	1000pF Ce
C253	23S40657F16	4.7uF 25V E1
C254	23S40657F16	4.7uF 25V E1
C255	23S40657F10	10uF 16V E1
C256	23S40657F10	10uF 16V E1
C301	23S40657F20	47uF 25V E1
C303	23S40657F16	4.7uF 25V E1
C304	23S40657F16	4.7uF 25V E1
C305	23S40657F10	10uF 16V E1
C306	23S40657F10	10uF 16V E1
C309	23S40657F52	220uF 16V E1
C310	23S40657F52	220uF 16V E1
C311	23S40657F12	33uF 16V E1
C313	23S40657F24	22uF 35V E1
C314	23S40657F24	22uF 35V E1
C317	23S40657F28	1uF 50V E1
C318	23S40657F28	1uF 50V E1
C319	23S40657F28	1uF 50V E1
C320	23S40657F28	1uF 50V E1
C321	23S40657F14	100uF 16V E1
C322	23S40657F14	100uF 16V E1
C323	08S40656F15	0.015uF My
C324	08S40656F15	0.015uF My
C325	23S40657F10	10uF 16V E1
C326	23S40657F10	10uF 16V E1

Symbol No.	Stock No.	Description	
C327	08S40656F13	0.01uF	My
C328	08S40656F13	0 - 01uF	My
C329	23S40657F16	4.7uF	E1
C330	23S40657F16	4.7uF	25V E1
C331	08S40656F16	0.018uF	My
C332	08S40656F16	0.018uF	My
C333	23T42478F21	0.33uF	50V E1
C334	23T42478F21	0.33uF	50V E1
C335	23T42478F21	0.33uF	50V E1
C336	23T42478F21	0.33uF	50V E1
C337	08S40656F15	0.015uF	My
C338	08S40656F15	0.015uF	My
C339	23S40657F28	1uF	50V E1
C340	23S40657F28	1uF	50V E1
C341	23S40657F28	1uF	50V E1
C342	23S40657F28	1uF	50V E1
C343	23S40657F10	10uF	16V E1
C344	23S40657F10	10uF	16V E1
C345	08T55260F27	39pF	Ce
C346	08T55260F27	39pF	Ce
C347	08S40656F10	5600pF	My
C348	08S40655F10	5600pF	My
C349	08T55260F49	1000pF	Ce
C350	08T55260F49	1000pF	Ce
C351	08S40656F07	3300pF	My
C352	08S40656F07	3300pF	My
C353	08S40657F10	10uF	16V E1
C354	08S40657F10	10uF	16V E1
C355	08S40657F08	3900pF	My
C356	08S40657F08	3900pF	My
C357	08S40657F24	0.082uF	My
C358	08S40657F24	0.082uF	My
C359	23S40657F16	4.7uF	25V E1
C360	23S40657F16	4.7uF	25V E1
C361	23T42478F19	0.15uF	50V E1
C362	23T42478F19	0.15uF	50V E1
C363	23S40657F27	0.47uF	50V E1
C364	23S40657F27	0.47uF	50V E1
C365	23S40657F09	220uF	10V E1
C366	23S40657F09	220uF	10V E1
C369	08S40656F04	1800pF	My
C370	08S40656F04	1800pF	My
C371	23S40657F10	10uF	16V E1
C372	23S40657F10	10uF	16V E1
C413	23S40657F29	2.2uF	50V E1
C414	23S40657F29	2.2uF	50V E1
C415	08T55260F33	68pF	Ce
C416	08T55260F33	68pF	Ce
C417	23S40657F09	220uF	10V E1
C418	23S40657F09	220uF	10V E1
C503	08S44503P06	0.0027uF	My
C504	08S44503P06	0.0027uF	My
C505	08T55260F41	220pF	Ce
C506	08T55260F41	220pF	Ce
C507	08T55260F49	1000pF	Ce
C508	08T55260F49	1000pF	Ce
C509	08T55260F44	390pF	Ce
C510	08T55260F44	390pF	Ce
C511	08S40656F02	1000pF	Ce

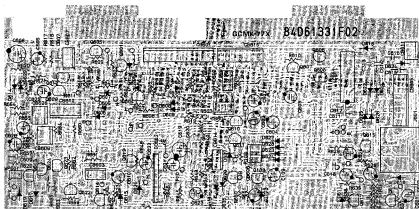
Symbol No.	Stock No.	Description		Symbol No.	Stock No.	Description	
C512	08540656F02	1200pF	My	R222	06S55065F97	22K	1/6W Rd
C513	23T42478F09	4.7uF 25V	El	R223	06S55065F69	1.5K	1/6W Rd
C514	23S42478F09	4.7uF 25V	El	R224	06S55065F69	1.5K	1/6W Rd
C515	23S40657F14	100uF 16V	El	R225	06S55066F02	33K	1/6W Rd
C516	23S41198U42	220uF 25V	El	R226	06S55066F02	33K	1/6W Rd
C517	23S42478F09	4.7uF 25V	El	R227	06S55066F37	910K	1/6W Rd
C518	23T42478F09	4.7uF 25V	El	R228	06S55066F02	910K	1/6W Rd
C521	08540656F13	0.01uF	My	R229	06S55065F81	4.7K	1/6W Rd
C522	08540656F13	0.01uF	My	R230	06S55065F81	4.7K	1/6W Rd
C523	08540656F25	0.1uF	My	R235	06S55065F83	5.6K	1/6W Rd
C524	08540656F25	0.1uF	My	R236	06S55065F83	5.6K	1/6W Rd
C525	23T42478F09	4.7uF 25V	El	R239	06S55065F97	22K	1/6W Rd
C526	23T42478F09	4.7uF 25V	El	R240	06S55065F97	22K	1/6W Rd
C527	08T55260F43	330pF	Ce	R241	06S55065F99	27K	1/6W Rd
C528	08T55260F43	330pF	Ce	R243	06S55065F65	1K	1/6W Rd
C529	08T55260F35	82pF	Ce	R244	06S55065F65	1K	1/6W Rd
C530	08T55260F35	82pF	Ce	R251	06S55065F91	12K	1/6W Rd
C531	08T55260F49	1000pF	Ce	R252	06S55065F91	12K	1/6W Rd
C532	08T55260F49	1000pF	Ce	R253	06S55065F57	470	1/6W Rd
C533	08T55260F43	330pF	Ce	R254	06S55065F57	470	1/6W Rd
C534	08T55260F43	330pF	Ce	R255	06S55065F89	10K	1/6W Rd
C535	08T55260F49	1000pF	Ce	R256	06S55065F89	10K	1/6W Rd
C536	08T55260F49	1000pF	Ce	R257	06S55066F30	470K	1/6W Rd
C538	08T52448F21	2200pF	Pp	R258	06S55066F30	470K	1/6W Rd
C539	08540656F11	6800pF	My	R259	06S55066F38	1M	1/6W Rd
C540	08540656F07	3300pF	My	R260	06S55066F38	1M	1/6W Rd
C541	08540656F07	3300pF	My	R261	06S55065F89	10K	1/6W Rd
C542	08540656F13	0.01uF	My	R262	06S55065F89	10K	1/6W Rd
C543	23S40657F20	47uF 25V	El	R263	06S55066F14	100K	1/6W Rd
C555	08T55260F43	330pF	Ce	R264	06S55066F14	100K	1/6W Rd
C556	08T55260F43	330pF	Ce	R301	06S55065F81	4.7K	1/6W Rd
C901	23S40657F28	1uF 50V	El	R302	06S55066F06	47K	1/6W Rd
C902	08T55260F16	0.01uF	Ce	R303	06S55065F41	100	1/6W Rd
C903	23S40657F16	4.7uF 25V	El	R304	06S55065F41	100	1/6W Rd
C904	23S40657F21	100uF 25V	El	R305	06S55066F14	100K	1/6W Rd
C905	23S40657F16	4.7uF 25V	El	R306	06S55066F14	100K	1/6W Rd
C906	23S40657F10	10uF 16V	El	R307	06S55066F24	270K	1/6W Rd
C907	23S40657F16	4.7uF 25V	El	R308	06S55066F24	270K	1/6W Rd
C909	23S40657F28	1uF 50V	El	R309	06S55066F06	47K	1/6W Rd
(Resistor)				R310	06S55066F06	47K	1/6W Rd
R101	06T55177F69	1.5K 1W	Rm	R311	06S55065F74	2.4K	1/6W Rd
R102	06T55177F53	330 1W	Rm	R312	06S55065F74	2.4K	1/6W Rd
R203	06S55065F41	100 1/6W	Rd	R313	06S55065F71	1.8K	1/6W Rd
R204	06S55065F41	100 1/6W	Rd	R314	06S55065F71	1.8K	1/6W Rd
R205	06S55065F89	10K 1/6W	Rd	R319	06T55179F47	180 2W	Rm
R206	06S55065F89	10K 1/6W	Rd	R320	06T55179F47	180 2W	Rm
R207	06S55065F81	4.7K 1/6W	Rd	R321	06S55065F81	4.7K	1/6W Rd
R208	06S55065F81	4.7K 1/6W	Rd	R322	06S55065F83	5.6K	1/6W Rd
R209	06S55065F89	10K 1/6W	Rd	R323	06S55065F73	2.2K	1/6W Rd
R210	06S55065F89	10K 1/6W	Rd	R324	06S55065F87	8.2K	1/6W Rd
R211	06S55065F89	10K 1/6W	Rd	R325	06S55066F02	33K	1/6W Rd
R212	06S55065F89	10K 1/6W	Rd	R326	06S55066F02	33K	1/6W Rd
R213	06S55066F14	100K 1/6W	Rd	R327	06S55065F97	22K	1/6W Rd
R214	06S55066F14	100K 1/6W	Rd	R328	06S55065F97	22K	1/6W Rd
R215	06S55065F53	330 1/6W	Rd	R329	06S55066F08	56K	1/6W Rd
R216	06S55065F53	330 1/6W	Rd	R330	06S55066F08	56K	1/6W Rd
R219	06S55066F22	220K 1/6W	Rd	R331	06S55066F08	56K	1/6W Rd
R220	06S55066F22	220K 1/6W	Rd	R332	06S55066F08	56K	1/6W Rd
R221	06S55065F97	22K 1/6W	Rd	R333	06S55065F82	5.1K	1/6W Rd

Symbol No.	Stock No.	Description
R334	06555065F82	5.1K 1/6W Rd
R335	06555065F93	15K 1/6W Rd
R336	06555065F93	15K 1/6W Rd
R337	06555065F47	180 1/6W Rd
R338	06555065F47	180 1/6W Rd
R339	06555066F06	47K 1/6W Rd
R340	06555066F06	47K 1/6W Rd
R341	06555065F84	6.2K 1/6W Rd
R342	06555065F84	6.2K 1/6W Rd
R343	06555066F12	82K 1/6W Rd
R344	06555066F12	82K 1/6W Rd
R345	06555065F41	100 1/6W Rd
R346	06555065F41	100 1/6W Rd
R347	06555066F38	1M 1/6W Rd
R348	06555066F38	1M 1/6W Rd
R349	06555065F82	5.1K 1/6W Rd
R350	06555065F82	5.1K 1/6W Rd
R351	06555065F89	10K 1/6W Rd
R352	06555065F89	10K 1/6W Rd
R353	06555066F10	68K 1/6W Rd
R354	06555066F10	68K 1/6W Rd
R355	06555065F81	4.7K 1/6W Rd
R356	06555065F81	4.7K 1/6W Rd
R357	06555065F50	240 1/6W Rd
R358	06555065F50	240 1/6W Rd
R359	06555066F08	56K 1/6W Rd
R360	06555066F08	56K 1/6W Rd
R361	06555065F49	220 1/6W Rd
R362	06555065F49	220 1/6W Rd
R363	06555065F87	8.2K 1/6W Rd
R364	06555065F87	8.2K 1/6W Rd
R365	06555065F84	6.2K 1/6W Rd
R366	06555065F84	6.2K 1/6W Rd
R367	06555066F12	82K 1/6W Rd
R368	06555066F12	82K 1/6W Rd
R369	06555065F65	1K 1/6W Rd
R370	06555065F65	1K 1/6W Rd
R371	06555065F77	3.3K 1/6W Rd
R372	06555065F77	3.3K 1/6W Rd
R373	06555065F87	8.2K 1/6W Rd
R374	06555065F87	8.2K 1/6W Rd
R375	06555065F82	5.1K 1/6W Rd
R376	06555065F82	5.1K 1/6W Rd
R377	06555065F87	8.2K 1/6W Rd
R378	06555065F87	8.2K 1/6W Rd
R379	06555065F83	5.6K 1/6W Rd
R380	06555065F83	5.6K 1/6W Rd
R425	06555065F59	560 1/6W Rd
R426	06555065F59	560 1/6W Rd
R427	06555065F81	4.7K 1/6W Rd
R428	06555065F81	4.7K 1/6W Rd
R429	06555065F55	390 1/6W Rd
R430	06555065F55	390 1/6W Rd
R431	06555066F12	82K 1/6W Rd
R432	06555066F12	82K 1/6W Rd
R435	06T55175F53	330 1W Rm
R436	06T55175F53	330 1W Rm
R437	06T55275F29	33K 1/2W Rm
R438	06T55275F29	33K 1/2W Rm

Symbol No.	Stock No.	Description
R439	06555065F89	10K 1/6W Rd
R440	06555065F89	10K 1/6W Rd
R443	06555065F65	1K 1/6W Rd
R444	06555065F65	1K 1/6W Rd
R501	06555066F08	56K 1/6W Rd
R502	06555066F08	56K 1/6W Rd
R503	06555066F01	30K 1/6W Rd
R504	06555066F01	30K 1/6W Rd
R505	06555066F16	120K 1/6W Rd
R506	06555066F16	120K 1/6W Rd
R507	06555066F04	39K 1/6W Rd
R508	06555066F04	39K 1/6W Rd
R509	06555066F07	51K 1/6W Rd
R510	06555066F07	51K 1/6W Rd
R511	06555065F95	18K 1/6W Rd
R512	06555065F95	18K 1/6W Rd
R513	06555065F89	10K 1/6W Rd
R514	06555065F89	10K 1/6W Rd
R515	06555066F10	18K 1/6W Rd
R516	06555066F10	18K 1/6W Rd
R517	06555066F10	68K 1/6W Rd
R518	06555066F10	68K 1/6W Rd
R519	06555066F10	68K 1/6W Rd
R520	06555066F10	18K 1/6W Rd
R521	06555066F06	47K 1/6W Rd
R522	06555066F06	47K 1/6W Rd
R523	06555066F08	56K 1/6W Rd
R524	06555066F08	56K 1/6W Rd
R525	06555065F75	2.7K 1/6W Rd
R526	06555065F75	2.7K 1/6W Rd
R527	06555065F89	10K 1/6W Rd
R528	06555065F89	10K 1/6W Rd
R531	06555065F44	130 1/6W Rd
R532	06555065F44	130 1/6W Rd
R533	06555065F89	10K 1/6W Rd
R534	06555065F89	10K 1/6W Rd
R537	06555065F41	100K 1/6W Rd
R538	06555065F41	100K 1/6W Rd
R539	06555066F02	33K 1/6W Rd
R540	06555066F02	33K 1/6W Rd
R541	06555066F20	180K 1/6W Rd
R542	06555066F20	180K 1/6W Rd
R543	06555065F89	10K 1/6W Rd
R544	06555065F89	10K 1/6W Rd
R545	06555066F38	1M 1/6W Rd
R546	06555066F38	1M 1/6W Rd
R547	06555065F89	10K 1/6W Rd
R548	06555065F89	10K 1/6W Rd
R549	06555065F89	10K 1/6W Rd
R550	06555065F89	10K 1/6W Rd
R552	06555065F01	2.2 1/6W Rd
R553	06T55175F17	10 1/2W Rm
R554	06T55175F17	10 1/2W Rm
R555	06555065F97	22K 1/6W Rd
R556	06555065F97	22K 1/6W Rd
R557	06555065F57	470 1/6W Rd
R558	06555065F57	470 1/6W Rd

Symbol No.	Stock No.	Description	Symbol No.	Stock No.	Description
R559	06S55065F77	3.3K 1/6W Rd	R917	06S55065F87	8.2K 1/6W Rd
R560	06S55065F97	22K 1/6W Rd	R918	06S55065F73	2.2K 1/6W Rd
R561	06S55065F81	4.7K 1/6W Rd	R919	06S55065F97	22K 1/6W Rd
R630	06S55065F97	22K 1/6W Rd	R920	06S55066F02	33K 1/6W Rd
R631	06S55065F75	2.7K 1/6W Rd	R921	06S55065F97	22K 1/6W Rd
R632	06S55065F89	10K 1/6W Rd	R923	06S55065F97	22K 1/6W Rd
R901	06S55065F89	10K 1/6W Rd	R924	06S55065F97	22K 1/6W Rd
R902	06S55065F89	10K 1/6W Rd	R925	06S55065F93	15K 1/6W Rd
R903	06S55065F97	22K 1/6W Rd	R926	06S55066F02	33K 1/6W Rd
R904	06S55065F97	22K 1/6W Rd	R927	06S55066F02	33K 1/6W Rd
R905	06S55065F97	22K 1/6W Rd	R928	06S55065F89	10K 1/6W Rd
R906	06S55065F89	10K 1/6W Rd	R929	06S55065F89	10K 1/6W Rd
R907	06S55065F89	10K 1/6W Rd	R930	06S55065F89	10K 1/6W Rd
R908	06S55065F89	10K 1/6W Rd	R931	06S55065F89	10K 1/6W Rd
R909	06S55065F81	4.7K 1/6W Rd	R932	06S55065F89	10K 1/6W Rd
R910	06S55065F97	22K 1/6W Rd	R933	06S55065F89	10K 1/6W Rd
R911	06S55065F97	22K 1/6W Rd	R934	06S55065F89	10K 1/6W Rd
R912	06S55066F06	47K 1/6W Rd	R935	06S55065F89	10K 1/6W Rd
R913	06S55065F89	10K 1/6W Rd	R936	06S55065F89	10K 1/6W Rd
R914	06S55065F89	10K 1/6W Rd	R937	06S55065F89	10K 1/6W Rd

## Control PCB Parts List



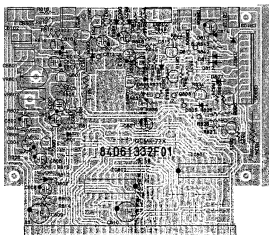
Symbol No.	Stock No.	Description	Symbol No.	Stock No.	Description
(IC)			Q612	48S43525F05	2SC1815-Y, GR
IC601	51S47110F01	BA843	Q613	48S43525F05	2SC1815-Y, GR
IC602	51S52852F01	MS1143L	Q614	48S43525F05	2SC1815-Y, GR
(Transistor)			Q615	48S43525E05	2SC1815-Y, GR
Q103	48T47144F03	2SD400-F	Q616	48S43525F05	2SC1815-Y, GR
Q601	48T43015U01	2SC2120-Y	Q617	48S43525F05	2SC1315-Y, GR
Q602	48T43915U01	2SC2120-Y	Q618	48S43525F05	2SC1815-Y, GR
Q603	48T43015U01	2SC2120-Y	Q619	48S43525F05	2SC1815-Y, GR
Q604	48T43915U01	2SC2120-Y	Q620	48S43525F05	2SC1815-Y, GR
Q605	48S43525F05	2SC1815-Y, GR	Q622	48S43525F05	2SC1815-Y, GR
Q606	48S43525F05	2SC1815-Y, GR	Q623	48S43525F05	2SC1815-Y, GR
Q607	48S43525F05	2SC1815-Y, GR	Q624	48S43525F05	2SC1815-Y, GR
Q608	48S43525F05	2SC1815-Y, GR	(Diode)		
Q609	48S4325F05	2SC1815-Y, GR	D601	48T61129F01	GP10-4003-R5
Q610	48S43525F05	2SC1815-Y, GR	D602	48T61129F05	GP10-4003-R5
Q611	48S43525F05	2SC1815-Y, GR	D603	48T61129F01	GP10-4003-R5



Symbol No.	Stock No.	Description
D604	48T61129F01	GP10-4003-R5
D605	48T58583F01	SS176PA7
D606	48T58583F01	SS176TPA7
D607	48T58583F01	SS176TPA7
D608	48T58583F01	SS176PA7
D609	48T58583F01	SS176PA7
D610	48T58583F01	SS176PA7
D611	48T58583F01	SS176PA7
D614	48T58583F01	SS176TAP-7
D615	48T58583F01	SS176TAP-7
D616	48T58583F01	SS176TAP-7
D617	48T57425F01	GE 1M 60FM
D618	48T58583F01	SS176PA7
D619	48T58583F01	SS176PA7
D620	48T58583F01	SS176PA7
D621	48T58583F01	SS176PA7
D622	48T58583F01	SS176PA7
D623	48T58583F01	SS176PA7
D624	48T58583F01	SS176PA7
D625	48T58583F01	SS176PA7
D626	48T58583F01	SS176PA7
D627	48T58583F01	SS176PA7
D628	58T58583F01	SS176PA7
D629	48T58583F01	SS176PA7
D634	48T57425F01	GE 1M 60FM
D635	48T58583F01	SS176PA7
D637	48T58583F01	SS176PA7
(Diode, Zener)		
ZD103	48T40150U32	HZ5B-2
(Capacitor)		
C108	23S40657F10	10uF 16V E1
C109	23S40657F10	10uF 16V E1
C601	23S40657F27	0.47uF 50V E1
C602	23S40657F10	10uF 16V E1
C603	23S40657F09	220uF 10V E1
C604	23S40657F09	220uF 10V E1
C605	23S40657F14	100uF 10V E1
C606	23S40657F10	10uF 16V E1
C607	08T55269F61	0.01uF Ce
C608	23S40657F09	220uF 10V E1
C609	08T55260F61	0.01uF E1
C610	23S40657F14	100uF 16V E1
C611	08T55260F61	0.01uF Ce
C612	08T55260F61	0.01uF Ce
C613	08T55260F61	0.01uF Ce
C614	08T55260F61	0.01uF Ce
C615	08T55260F61	0.01uF Ce
C616	08T55260F61	0.01uF Ce
C617	23S40657F13	47uF 16V E1
C618	23S40657F28	1uF 50V E1
C619	23S40657F14	100uF 16V E1
C620	08T55260F49	1000pF Ce
C621	23S40657F30	3.3uF 50V E1
C622	23T42478F18	0.1uF 50V E1
C623	23S40657F29	2.2uF 50V E1
C624	23S40657F29	2.2uF 50V E1
C625	23S40657F18	22uF 25V E1
C626	23S40657F10	10uF 16V E1
C627	08T55260F61	0.01uF Ce

Symbol No.	Stock No.	Description
C629	23S40657F10	10uF 16V E1
(Resistor)		
R103	06S55065F63	820 1/6W Rd
R601	06S55065F73	2.2K 1/6W Rd
R602	06S55065F59	560 1/6W Rd
R603	06S55065F59	560 1/6W Rd
R604	06S55065F53	330 1/6W Rd
R605	06S55065F53	330 1/6W Rd
R656	06S55065F59	560 1/6W Rd
R607	06S55065F89	10K 1/6W Rd
R608	06S55065F53	330 1/6W Rd
R609	06S55066F06	47K 1/6W Rd
R610	06S55065F06	47K 1/6W Rd
R611	06S57258F97	22K 1/6W Rd
R612	06S55065F73	2.2K 1/6W Rd
R615	06S55065F85	6.8K 1/6W Rd
R616	06S55065F91	12K 1/6W Rd
R617	06S55065F93	15K 1/6W Rd
R618	06S55065F89	10K 1/6W Rd
R619	06S55065F77	3.3K 1/6W Rd
R620	06S55065F93	15K 1/6W Rd
R621	06S55065F81	4.7K 1/6W Rd
R622	06S55066F06	47K 1/6W Rd
R623	06S55066F04	39K 1/6W Rd
R624	06S55066F02	33K 1/6W Rd
R625	06S55065F41	10K 1/6W Rd
R626	06S55065F53	330 1/6W Rd
R627	06S55065F77	3.3K 1/6W Rd
R628	06S55066F06	47K 1/6W Rd
R629	06S55066F02	33K 1/6W Rd
R633	06S55065F77	3.3K 1/6W Rd
R634	06S55065F77	3.3K 1/6W Rd
R635	06S55065F89	10K 1/6W Rd
R636	06S55065F77	3.3K 1/6W Rd
R637	06S55065F77	3.3K 1/6W Rd
R638	06S55065F69	1.5K 1/6W Rd
R639	06S55065F69	1.5K 1/6W Rd
R640	06S55066F02	33K 1/6W Rd
R641	06S55066F02	33K 1/6W Rd
R642	06S55066F36	820K 1/6W Rd
R643	06S55066F31	510K 1/6W Rd
R645	06S55066F06	47K 1/6W Rd
R646	06S55065F69	1.5K 1/6W Rd
R647	06S55065F59	560 1/6W Rd
R648	06S55065F73	2.2K 1/6W Rd
R650	06S55065F97	22K 1/6W Rd
R651	06S55065F97	22K 1/6W Rd
R654	06S55065F89	10K 1/6W Rd
R655	06S55066F14	100K 1/6W Rd
R656	06S55065F89	10K 1/6W Rd
R657	06S55066F06	47K 1/6W Rd
R658	06S55065F97	22K 1/6W Rd
R659	06S55065F93	15K 1/6W Rd
R660	06S55066F06	47K 1/6W Rd
R661	06S55065F97	22K 1/6W Rd
R662	06S55065F97	22K 1/6W Rd
R663	06S55066F06	47K 1/6W Rd
R664	06S55065F97	22K 1/6W Rd
R665	06S55066F97	47K 1/6W Rd

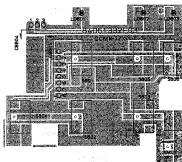
# FL Meter PCB Parts List



Symbol No.	Stock No.	Description
(Variable, Resistor)		
VR801	18T52946F17	47K
VR802	18T52946F17	47K
(FL Meter)		
E801	65T52950F01	FIP 12DW7YS
(IC)		
IC801	51T42626F01	HA12019
IC802	51T42626F01	HA12019
(Transistor)		
Q801	48S43525F05	2SC1815-Y, GR
Q802	48S43525F05	2SC1815-Y, GR
(Diode)		
D801	48T43982F01	GE OA95
D802	48T43982F01	GE OA95
(Diode, Zener)		
ZD801	48T40150U32	HZ 6B-2
(Capacitor)		
C801	23S40657F10	10uF 16V E1
C802	23S40657F10	10uF 16V E1
C803	23S40657F17	10uF 25V E1
C804	23S40657F17	10uF 25V E1
C805	23S40657F17	10uF 25V E1
C806	23S40657F17	10uF 25V E1
C807	23T42478F21	0.33uF 50V E1
C808	23T42478F21	0.33uF 50V E1

Symbol No.	Stock No.	Description
C809	23S40657F21	100uF 25V E1
C810	23S40657F21	100uF 25V E1
C816	23S40657F26	47uF 35V E1
(Resistor)		
R801	06S55065F89	10K 1/6W Rd
R802	06S55065F89	10K 1/6W Rd
R803	06S55066F29	430K 1/6W Rd
R804	06S55066F29	430K 1/6W Rd
R805	06S55065F71	1.8K 1/6W Rd
R806	06S55065F71	1.8K 1/6W Rd
R807	06S55066F18	150W 1/6W Rd
R808	06S55066F18	150W 1/6W Rd
R809	06S40151T50	3.3M 1/4W Rd
R810	06S40151T50	3.3K 1/4W Rd
R811	06S55065F85	6.8K 1/6W Rd
R812	06S55065F85	6.8K 1/6W Rd
R813	06S55065F49	220 1/6W Rd
R814	06S55065F49	220 1/6W Rd
R815	06S55179F47	180 2W Rd
R816	06S55065F41	100 1/6W Rd
R817	06S55065F41	100 1/6W Rd
R818	06S55065F41	100 1/6W Rd
R819	06T55175F51	270 1/2W Rm

## Key Board Switch Parts List



Symbol No.	Stock No.	Description
(Switch)		
S601	40T44505F01	SW, KHG
S602	40T44505F01	SW, KHG
S603	40T44505F01	SW, KHG
S604	40T44505F01	SW, KHG
S605	40T44505F01	SW, KHG
S606	40T44505F01	SW, KHG
S607	40T44505F01	SW, KHG

## Rotary Switch PCB Parts List



Symbl No.	Stock No.	Description
(Switch)		
S616	40T57206F01	SRZ-S 6-4
(Diode)		
D638	48T44813F01	MA165TA-AX
D639	48T44813F01	MA165TA-AX
D640	48T44813F01	MA165TA-AX

## Head Phone PCB Parts List



Symbol No.	Stock No.	Description
(Jack)		
J401	09T60076F02	Head Phone

## Music Scan PCB Parts List



Symbol No.	Stock No.	Description
(Switch)		
S609	40T44505F01	SW, KHG
S610	40T44505F01	SW, KHG

## Memory Switch PCB Parts List



Symbol No.	Stock No.	Description
(Switch)		
	40T57208F01	SW, Push SPH12-A
(Diode)		
D641	48T44813F01	MA165TA

## Indicator PCB Parts List



Symbol No.	Stock No.	Description
(Lamp)		
PL617	65B43447J03	Lamp Pilot
PL618	65B43447J03	Lamp Pilot
PL619	65B43447J03	Lamp Pilot

## Power Supply PCB Parts List



Symbol No.	Stock No.	Description
(Transistor)		
Q101	48T56031F01	2SD1266-P, Q
Q102	48T56031F01	2SD1266-P, Q
Q104	48S43525F05	2SC1815-Y, GR
Q105	48S43525F05	2SC1815-Y, GR

## Reed Switch PCB Parts List



Symbol No.	Stock No.	Description
(Switch)		
	40T47104F01	SW, Reed

## Remarks

### Capacitor;

EL . . . . . Electrolytic, Capacitor  
 Ce . . . . . Ceramic, Capacitor  
 My . . . . . Mylar, Capacitor  
 Mi . . . . . Mica, Capacitor  
 Pe . . . . . Polyethelene, Capacitor  
 Po . . . . . Polystyrene, Capacitor  
 Pp . . . . . Polypropylene, Capacitor  
 LR . . . . . Low Leak, Capacitor  
 PB . . . . . Bi-Polar, Capacitor

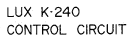
### Resistor;

Rd . . . . . Carbon, Resistor  
 Rm . . . . . Metal Film, Resistor  
 Rc . . . . . Cement, Resistor

### Schematic Diagram(A)



Figure 1



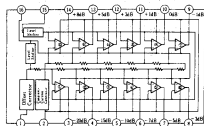
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NOTE
SEMI CONDUCTORS
D103 ---- 250A00E,F
Q601,602,603,604 ----
      (25C125-Y,G)
      (25C131S-P)
Q605,606,607,608 ----
Q609,610,611,612
Q613,614,615,617
Q618,619,620,622
Q623,628 ---- 25C181S-Y,G
D634,617 ---- 1N4001/1N4001F
      /OA36
Q601,602,603,605 ----
      (1N4001/1N4001F)
      /10C2
Q605,606,611,629
Q607,608,609,610
Q620,615,616,617
Q618,619,621,622
Q623,628,622,626
Q627,628,629,635
Q637,638,639,640
D641 ----
      MA145/MA15
      /1S1565
ZD103 ---- HZ68-2
IC801 ---- BA84A
IC802 ---- MS1143L

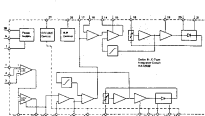
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## IC Handling Guide

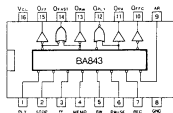
**HA12019 IC801, 802 (Stock No. 51T42626F01)**  
Fluorescent Tube Driver for Bar Graph Display



**HA12038-01 IC301, IC302 (Stock No. 51T52160F01)**  
Dolby-Band-C Type Noise Reduction System



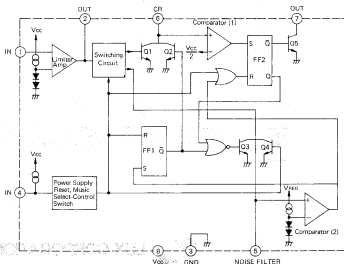
**BA843 IC601 (Stock No. 51S47110F01)**  
Key Control



**μPC4558 IC501 (Stock No. 51S43471U02)**



**M511435 IC602 (Stock No. 61T52852F01)**  
Music Sensor



## Destination's Parts List

Symbol No.	Description	Power Source		
		AG (240V) England & Oceania	AK, SK, BK, EK (220V) Europe	UQ (120V) Canada
P5, 62	A.C. Cord, Set Label	30T60973F01 54A51739F01	30T60905F01 54A51740F01	30T60804F01 54A56257F03

## Specifications

Heads:	2
Record head	Hexalum
Play back head	
Erase head	Double Gap Ferrite
Wow & Flutter: (WRMS)	0.04%
Signal-to-Noise Ratio: (CCIR weighted)	
Metal-Tape, without NR	58dB
Metal-Tape, with Dolby-B-NR	67dB
Metal-Tape, with Dolby-C-NR	71dB
CrO <sub>2</sub> -Tape, without NR	58dB
CrO <sub>2</sub> -Tape, with Dolby-B-NR	67dB
CrO <sub>2</sub> -Tape, with Dolby-C-NR	71dB
Nor.-Tape, without NR	57dB
Nor.-Tape, with Dolby-B-NR	65dB
Nor.-Tape, with Dolby-C-NR	70dB
Frequency Response:	
Metal Tape:	20Hz~20,000Hz (20Hz~18,000Hz±3dB)
CrO <sub>2</sub> Tape:	20Hz~18,000Hz (20Hz~16,000Hz±3dB)
Nor. Tape:	20Hz~17,000Hz (20Hz~15,000Hz±3dB)
The 3rd Harmonic Distortion: (Normal tape, 1kHz, 0dB)	0.7%
Input Sensitivity:	line in: 80mV microphone: 300μV
Output Level:	line out: 500mV headphone: 1mW (8 ohms load)
Power Consumption:	20W
Dimensions:	453(W) x 270(D) x 111(H) mm (17.8" x 10.6" x 4.3")
Weight:	Net: 5.0 kgs (11.0 lbs) Gross: 6.0 kgs (13.2 lbs)

Specifications and appearance design subject to change without notice.

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